WHAT IS CLAIMED IS:

 A method comprising a receiving device performing the steps of: receiving a transmitted signal comprising a plurality of sub-channels; operating in a first decoding mode to decode one or more sub-channels of the plurality of sub-channels, thereby yielding control information;

if the control information includes indicia of payload directed to the receiving device, operating in a second decoding mode to decode one or more additional sub-channels of the plurality of sub-channels, thereby yielding payload information.

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- The method of claim 1, wherein in the first decoding mode, the receiving device decodes payload sub-channels that include the control information.
- 15 3. The method of claim 1, wherein in the first decoding mode, the receiving device decodes only designated control sub-channels.
 - The method of claim 3, wherein in the second decoding mode, the receiving device decodes the control sub-channels and the one or more additional sub-channels.
 - 5. In a wireless communication system adapted for communicating information in M sub-channels spanning a bandwidth B_M, a method comprising: sending control information, from a sending device to a receiving device, in one or more control sub-channels of the M sub-channels occupying a first portion of the bandwidth B_M.
 - The method of claim 5, wherein the sending device is a base station and the receiving device is a radio communication unit.

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7. The method of claim 5, further comprising:

decoding, by the receiving device, the control sub-channels to receive the control information.

- 5 8. The method of claim 7, wherein the step of decoding the control subchannels comprises the receiving device decoding only the control sub-channels.
 - 9. The method of claim 5, further comprising, upon the sending device having payload information directed to the receiving device:

sending the payload information to the receiving device in one or more payload sub-channels of the M sub-channels occupying a second portion of the bandwidth B_{M} .

10. The method of claim 9, further comprising:

decoding, by the receiving device, the payload sub-channels to receive the payload information.

- 11. The method of claim 10, wherein the step of decoding the payload sub-channels comprises the receiving device decoding the full bandwidth $B_{\rm M}$.
- 12. The method of claim 9 wherein, prior to sending the payload information, the sending device performs the steps of:

sending, via the control channels, a message informing the receiving device to decode at least the one or more payload sub-channels to receive the payload information.

13. The method of claim 5, further comprising, upon the sending device having payload information directed to the receiving device:

determining, by the sending device, if the payload information can be 30 communicated via the control sub-channels:

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if the payload information can be communicated via the control subchannels, sending the payload information to the receiving device via the one or more control sub-channels.

5 14. The method of claim 13, further comprising:

decoding, by the receiving device, the control sub-channels to receive the payload information.

- 15. The method of claim 14, wherein the step of decoding the control sub-thannels comprises the receiving device decoding only the control sub-channels.
 - 16. The method of claim 13, comprising, if the payload information can not be communicated via the control sub-channels,

sending the payload information to the receiving device in one or more

15 payload sub-channels of the M sub-channels occupying a second portion of the
bandwidth B_M.

17. The method of claim 16, further comprising:

decoding, by the receiving device, the payload sub-channels to receive the 20 payload information.

- 18. The method of claim 17, wherein the step of decoding the payload sub-channels comprises the receiving device decoding the full bandwidth B_M.
- 25 19. The method of claim 16 wherein, prior to sending the payload information, the sending device performs the steps of:

sending, via the control channels, a message informing the receiving device to decode the one or more payload sub-channels to receive the payload information.

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20. A communication device comprising:

an antenna for receiving a transmitted signal comprising M sub-channels; and

- a decoding element for independently decoding each of the M subchannels, the decoding element being operable in a first decoding mode to decode one or more control sub-channels of the M sub-channels and in a second decoding mode to decode one or more payload sub-channels of the M sub-channels.
- The communication device of claim 20, wherein in the first decoding
 mode, the decoding element decodes only the control sub-channels.
 - 22. The communication device of claim 20, wherein in the second decoding mode, the decoding element decodes the control sub-channels and the payload sub-channels.

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